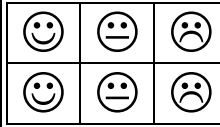
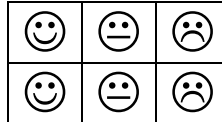


SIMULTANEOUS EQUATIONS

A: I can draw straight lines from equations



B: I can solve simultaneous equations graphically



C: I can solve simultaneous equations algebraically, by elimination



D: I can solve problems using simultaneous equations



E: I can solve simultaneous equations using substitution



Draw the following straight lines:-

a) $y = 2x$

x	-1	0	1	2
y				

b) $y = 3x - 1$

c) $y = -2x + 3$

Solve the pair of simultaneous equations by drawing the straight line graphs and finding where the 2 lines cross:-

$$y = 4x - 1$$

$$y = -x + 4$$

Solve each pair of simultaneous equations algebraically:-

Example1 $2x + 3y = 12$

$4x - 3y = 6$

Example2 $3x + 2y = 9$

$4x - y = 1$

Example3 $3x - 2y = 14$

$2x + 3y = 5$

Example4 $3x = 4y + 13$

$3y = 20 - 2x$

At the cinema the cost for 2 adults and 3 children is £22.50.

The cost for 3 adults and 1 child is £21.50.

Find the cost for 2 adults and 4 children.

Solve the pair of simultaneous equations:-

$y = 2x - 1$

$5x - 2y = 8$